

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. E
AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 4

REF. FAA STC: SR01583SE
REF. CANADIAN STC: SH05-37
REF. EASA STC: EASA.IM.R.S.01126

PURPOSE:

The purpose of this service instruction is to provide instructions for upgrading D412-742-011/-013 Skidtube Installations at CHG 006 and earlier with the heavy duty wearplates of CHG 007 and subsequent installations. The DSI9517-011 Wearplate Kit contains the necessary wearplates and hardware for this upgrade.

INSTALLATION PROCEDURE:

Replace D3564-1/-3/-5/-13 Wearshoes, D3537-1/-7/-13 Wearpads, D3553-1/-3 and D3566-1/-3/-5/-13 Gaskets with D4095-041/-043/-045/-047/-049/-051 Wearshoes Assemblies as follows:

1. Remove existing D3564-1/-3/-5/-13 Wearshoes and D3566-1/-3/-5/-13 Gaskets per Item 32.6.1 of ICA-D412-742.
2. Remove qty(4) AN4C52A Bolts, D3403-1 Bushings, and qty(8) D3672-11 Washers as indicated in Figures 1 and 2 of this service instruction.
3. Inspect the skidtube and saddles per Chapter 5 of ICA-D412-742.
4. Seal existing inserts located on both sides of the skidtube in area shown in Figures 1, 2 and 3 of this service instruction using Sikaflex -241/-291 or Proseal 890 or MIL-S-8802 Class 2B sealant.
5. Locate the D4095-041/-043 Wearplates as shown in Figure 1, 2 and 3 of this service instruction.
6. Transfer drill qty (2) Ø0.438 hole from the skidtube/saddle to the D4095-041/-043 Wearplate Assemblies. Deburr. Touch up finish per Item 5.2.14 of ICA-D412-742 as required.
7. Install the remaining portions of the DSI-9517-011 Wearplate Kit (D4095-045/-047/-049/-051) using the same AN3C hardware as shown in ICA-D412-742. Torque to 15-25 in-lbs (1.7-2.8 N-m).
8. Install D3403-5 Bushings and AN4C53A Bolts in lieu of D3403-1 Bushings and AN4C52A Bolts removed at step 2 above. Ensure that the nuts on the AN4C Bolts are on the inboard side of the skidtube. Torque to 50-70 in-lbs (5.7-7.9 N-m). Note: It is acceptable to trim the smaller end of D3403-5 Bushings to obtain a 0.005" pinch fit on the Wearshoes/Saddles
9. Amend weight and balance per the Weight and Balance Table below.

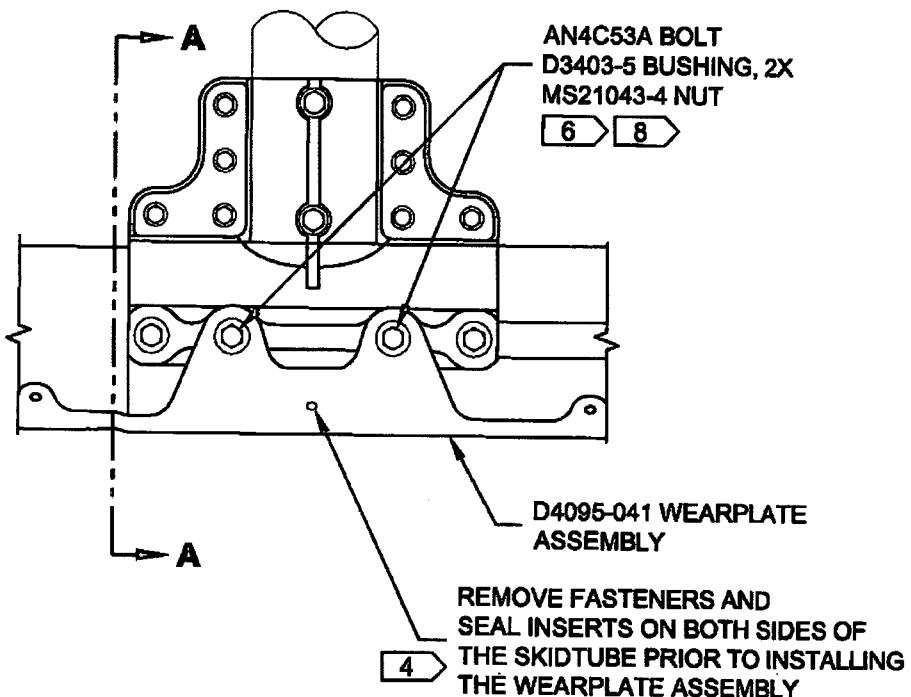
WEIGHT AND BALANCE:

Use the following weight and balance information for DART D412-742-011/-013 skidtube and saddle installations equipped with DSI-9517-011 Wearplate Kit.

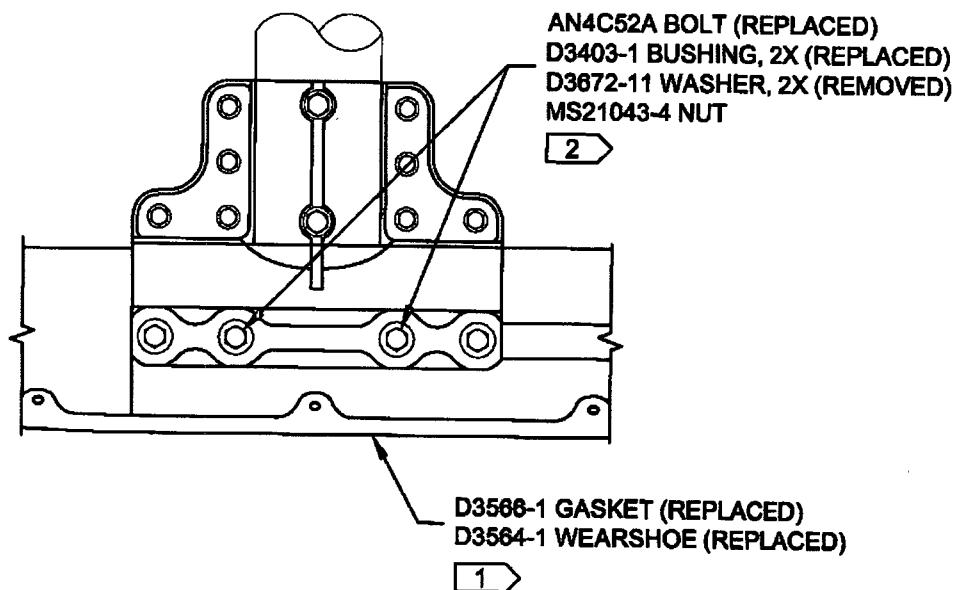
INSTALLATION	WEIGHT	LATERAL		LONGITUDINAL	
		ARM	MOMENT	ARM	MOMENT
D412-742-011 <i>Float Skidtube Installation with DSI-9517-011 Kit Installed</i>	70.0 lb 31.8 kg	±55.0 in ±1.40 m	±3850 in-lb ±44.5 m-kg	130 in 3.3 m	9100 in-lb 105 m-kg
D412-742-013 <i>Float Skidtube Installation with DSI-9517-011 Kit Installed</i>	70.0 lb 31.8 kg	±55.0 in ±1.40 m	±3850 in-lb ±44.5 m-kg	130 in 3.3 m	9100 in-lb 105 m-kg

C	REMOVE SHEET 5&6, ADD D4095-045/-047/-049/-051	DW	13.09.25
B	ITEM 21B AND 22B REMOVED FROM PARTS LIST	XDF	11.10.11
A	NEW ISSUE	MB	10.04.21
REV.	DESCRIPTION		BY DATE
DESIGN	DART AEROSPACE USA, INC KENT, WA		
DRAWN	DW		
CHECKED	AP		
MFG. APPR.	N/A		
APPROVED	HS		
DE APPR.	/		
DATE	13.09.25		
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IS:



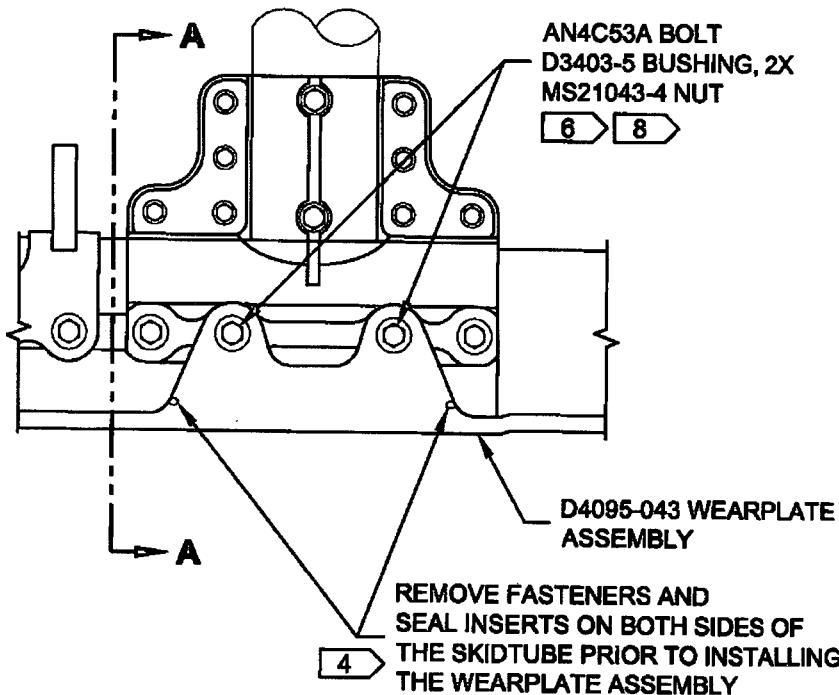
WAS:



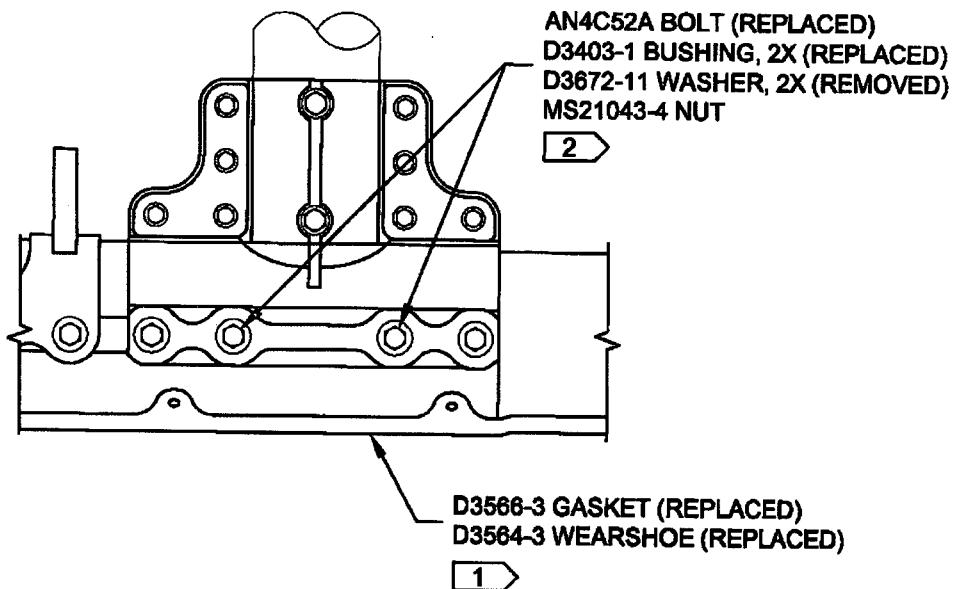
**FIGURE 1: CHANGE AT FORWARD SADDLE LOCATION
WITH DSI-9517-011 KIT INSTALLED**

DESIGN	<i>4</i>	DART AEROSPACE USA, INC	
DRAWN	<i>DW</i>	KENT, WA	
CHECKED	<i>JK</i>	DRAWING NO.	REV. C
MFG. APPR.	<i>N/A</i>	DSI 9517	SHEET 2 OF 4
APPROVED	<i>MP</i>	TITLE	SCALE
DE APPR.	<i>MP</i>	ALTERNATE WEARPLATE KIT	NTS
DATE	13.09.25	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

IS:



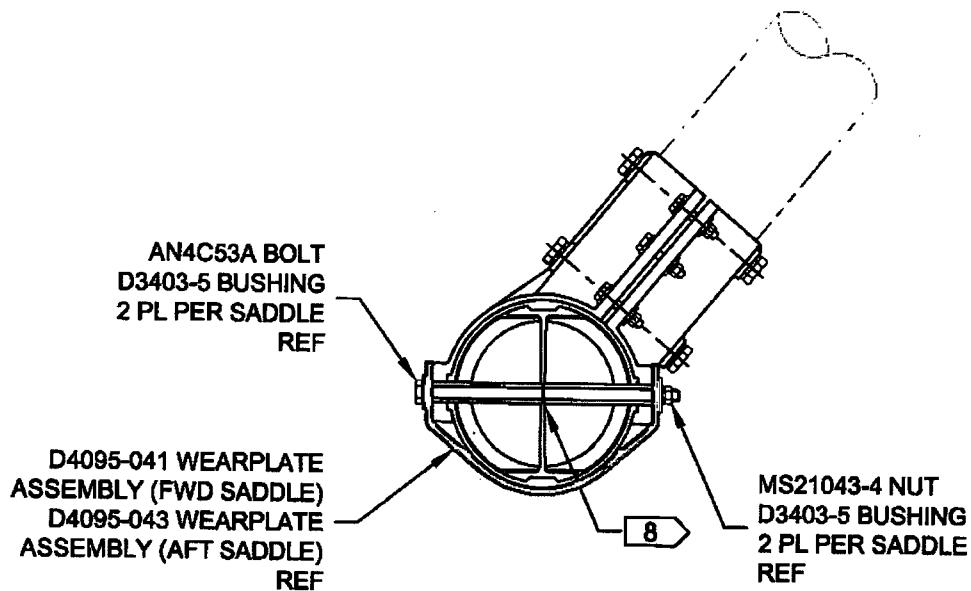
WAS:



**FIGURE 2: CHANGE AT AFT SADDLE LOCATION
WITH DSI-9517-011 KIT INSTALLED**

DESIGN	4	DART AEROSPACE USA, INC	
DRAWN	DW	KENT, WA	
CHECKED	R	DRAWING NO.	
MFG. APPR.	N/A	DSI 9517	
APPROVED	MJ	REV. C	
DE APPR.	MM	SHEET 3 OF 4	
DATE	13.09.25	TITLE	
		SCALE	
		ALTERNATE WEARPLATE KIT	
		NTS	

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SECTION A-A

DSI-9517-011 PARTS LIST:

QTY -011	PART NUMBER	DESCRIPTION
X	DSI-9517-011	WEARPLATE KIT
8	D3403-5	BUSHING
1	D4095-041	WEARPLATE ASSEMBLY (REPLACES D3564-1)
1	D4095-043	WEARPLATE ASSEMBLY (REPLACES D3564-3)
1	D4095-045	WEARPLATE ASSEMBLY (REPLACES D3564-5)
1	D4095-047	WEARPAD ASSEMBLY (REPLACES D3537-7)
1	D4095-049	WEARPAD ASSEMBLY (REPLACES D3537-1)
1	D4095-051	WEARPAD ASSEMBLY (REPLACES D3537-13)
4	AN4C53A	BOLT

DESIGN	4	DART AEROSPACE USA, INC	
DRAWN	DW	KENT, WA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9517	SHEET 4 OF 4
APPROVED		TITLE	SCALE
DE APPR.		ALTERNATE WEARPLATE KIT	
DATE	13.09.25	NTS	
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